

Inorganic and Organic Chemistry

SYNTHESIS OF 2, 2':6', 2'' – TERPYRIDINE-1,1''-DIOXIDE AND X-RAY  
DETERMINATION OF TERPYRIDINE DIOXIDE / TETRACYANO BENZENE  
DONOR-ACCEPTOR COCRYSTAL

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2, 2':6', 2'' – Terpyridine-1,1''-dioxide was synthesized in high yield using dimethyldioxirane in acetone. Light yellow X-ray quality terpyridine dioxide (TDO)-tetracyanobenzene (TCNB)cocrystals were grown from methylene chloride in ether diffusion. The cocrystal is found in the monoclinic  $C2/c$  space group. The close contacts found in the packing diagram and the spectroscopy of the cocrystals will be discussed.